

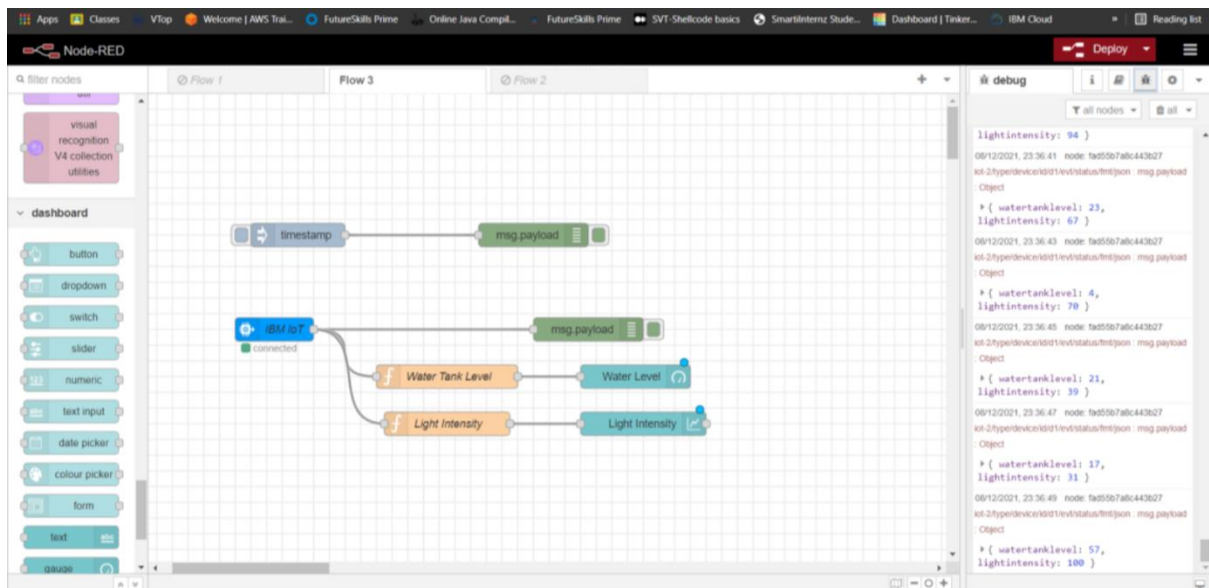
ASSIGNMENT-3

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Task - Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

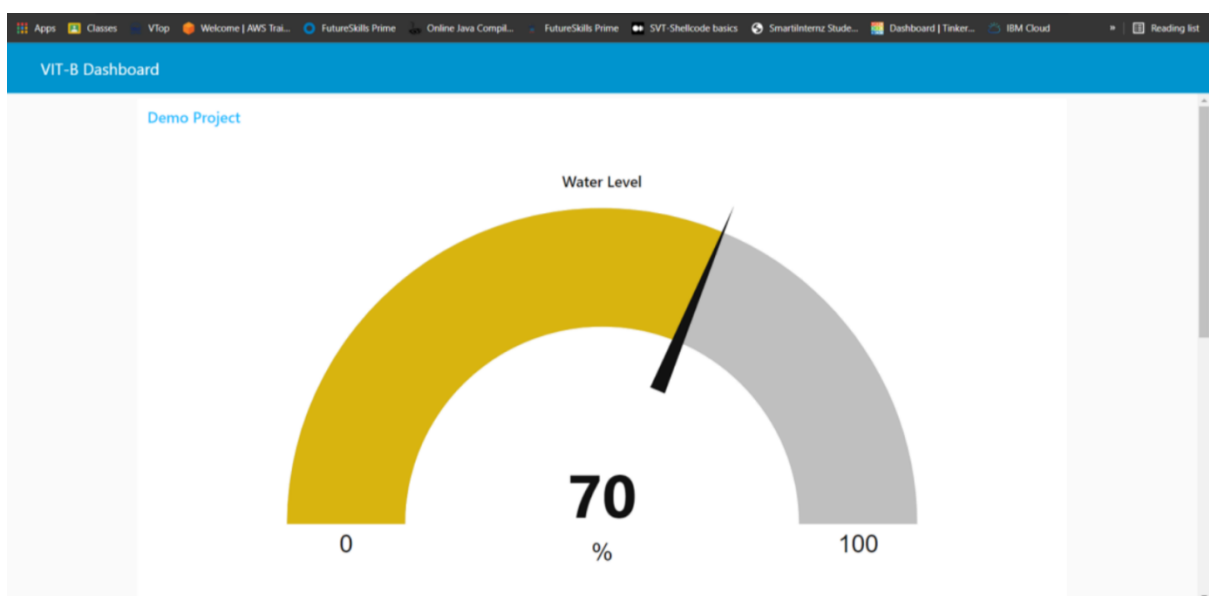
Flow Diagram-



Light Intensity Wave Chart-



Water Level-



Python Code-

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "jb5j3r",
        "typeId": "Bikram",
        "deviceId": "69420"
    },
    "auth": {
        "token": "8824216749"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m = cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    tanklv = random.randint(-20, 125)
    lightint = random.randint(0, 100)
    myData = {'WaterTankLevel': tanklv, 'LightIntensity': lightint}
    client.publishEvent(eventId="status", msgFormat="json",
                        data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```